

FIELD OBSERVATION REPORT

Project: Gas Main – Cumberland-Falmouth-Yarmouth
Client: Towns of Cumberland, Falmouth and Yarmouth
GP Field Rep: Benjamin Grondin (BG)
Weather: Sunny
Temp. Range: 70-85°F
Time onsite: Multiple visits

GP Project No: 1636.87
Visit Date: September 26, 2017
Report Date: September 27, 2017

Summit Natural Gas

Summit Personnel: David
Crew #1: ETTi – Foreman (Matt B.) and 4 man crew
Equipment: CAT mini excavator, 2 dump truck

Crew #3: ETTi – Foreman (Matt M.) and 3 man crew
Equipment: CAT mini excavator, 1 ton dump truck, directional drill, ditchwitch vacuum

Distribution: File, Bill Shane, Chris Bolduc, Adam Theriault, Bryan Haberman, Bryan Foster, Bert Stefanic

Work in Progress – Town of Cumberland

- Crew #1 installing 2" gas main on Castlerock Drive.
- Crew #2 installing 2" gas main in woods near Dean's Way.

Discussions & Observations

Crew #1:

Castlerock Drive

- Work Zone Closure: 1 lane closed on Castlerock Drive with flaggers maintaining alternating one way traffic.
- Crew installed approximately 350' of 2" gas main from near #15 driveway to near #5 driveway.
- Crew installed 4" gas main on the the esplanade at approximately 40" depth via open trench method.
- Crew sawcut driveway aprons to house #11, 9, 7, and 5 for gas main installation.
- All utilities located via manhole inverts, camera, electronic locator, or hand excavated.
- Depth of utilities are to top of pipe unless noted in table below.

Utility	Depth
1" water service #11	>5'
1" water service #9	>5'
1" water service #7	>5'
1" water service #5	>5'

- Crew hand excavated 1' below the gas main elevation near the location of the water services but where unable to locate the water service. Therefore, >1' of separation was achieved.
- >6' of parallel separation was achieved between the 4" gas main and water main. There does not appear to be any sewer on Castlerock Drive.



- Crew backfilled trench with sand around the gas main, with excavated material above the sand. Backfill was compacted in lifts with a plate wacker.
- Crew cleaned worksite and traffic returned to normal by 4:30PM

Crew #2:

Deans Way

- Work Zone Closure: 1 lane closed on Route 88 with flaggers maintaining alternating one way traffic.
- Crew installed approximately 40' of 2" gas main in the right-of-way crossing route 88.
- Crew installed 2" gas main via direction drill method at approximately 48" depth crossing Route 88.
- Crew excavated the gravel in the longitudinal trench for gas main installation.
- All utilities located via manhole inverts, camera, electronic locator, or hand excavated.
- Depth of utilities are to top of pipe unless noted in table below.

Utility	Depth
8" water main	5'
8" gravity sewer	9'8"
10" force sewer	9'8"

- Crew did not achieve >1' of separation between the 2" gas main and the 8" water main. Separation was not achieved due to concrete under the travel way on route 88 and the proximity of the 8" water main to the 12" gas main. A rock shielded was placed between the 2" gas main and 8" water main.
- Crew achieved >1' of separation between the 2" gas main and the force and gravity sewers.
- >6' of parallel separation was achieved between the 2" gas main and water services.
- Crew backfilled the longitudinal shoulder trench on route 88 with excavated material. Backfill was compacted in lifts with a jumping jack.
- Cold patch was placed in the longitudinal trench due to the amount of pedestrian and bicycle traffic on Route 88.
- Crew cleaned worksite and traffic returned to normal by 3300PM

Upcoming Work

- 2" gas main installation on Castlerock Drive to continue on Wednesday (9/27)

Restoration Required

Location	Length of Main or # of Services	Roadway Crossing Trench Patch (1)	Driveway Crossing Trench Patch (1)	Longitudinal Road or Shldr Trench Patch (1)	Sidewalk Trench Patch (1)	Pave Pothole (1)	Restore Gravel Shldr or Driveway (2)	Loam, Seed & Mulch (2)	EC Blanket (2)	Riprap (2)	Moratorium Roadway Restoration (1)	Comments
MAINS												
Castlerock	350'		X					X				Driveway #11, 9, 7, 5



Dean's Way	40'			X				X				
SERVICES												

(1) Gorrill Palmer must observe pavement during placement

(2) Gorrill Palmer will observe restoration after completion

Visitors on Site

- None observed.

Concerns or Questions

- All gravel trenches within the roadway on Skillin Road shall be monitored and repaired or treated for dust control as necessary.
- Failed section of pavement on Skillin Road to be sawcut so gravel can be compacted and area can be paved.

Follow up Required

- None at this time.

Prepared By: Benjamin Grondin, EI

Reviewed By: Drew Gagnon, EI

If there are any discrepancies, please notify the sender immediately



Backfill compacted and warning tape placed in driveway crossing on Castlerock Drive.



Trench in esplanade backfilled.



Compacting backfill at driveway crossing on Castlerock Drive.



Cold patch placed in longitudinal trench on route 88.